

CLAIM AMENDMENTS

Claim 1 - (original)
Claim 2 - (original)
Claim 3 - (original)
Claim 4 - (original)
Claim 5 - (original)
Claim 6 - (currently amended)
Claim 7 - (currently amended)
Claim 8 - (currently amended)
Claim 9 - (currently amended)
Claim 10 - (currently amended)
Claim 11 - (currently amended)
Claim 12 - (currently amended)
Claim 13 - (currently amended)

1. (original) An improved golf club fitting system for fitting a set of golf clubs to a player comprising the steps:

measuring a player's physical dimensions at least including grip strength of the player's hand;

selecting a representative golf club having a dead weight equal to the total weight of the representative golf club, said dead weight being directly proportional to the player's grip strength, specifically that the dead weight of the golf club is greater when the player's grip strength is greater and vice versa;

recording the club length of the representative golf club;

determining the swing weight of the representative golf club;

computing a balance index (BI) for the representative golf club by dividing the dead weight (DW) by the numerical value of the swing weight (SW) ($DW/SW = BI$); and

comparing said balance index (BI) determined for the representative golf club to said dead weight of the representative golf club to determine generally corresponding balance index and dead

weight values for at least some of the other golf clubs in a set of golf clubs such that the system user can generally match different iron and wood golf clubs to the representative golf club thereby creating a generally ideal matched set of golf clubs for the player.

2. (original) The improved golf club fitting system of claim 1 further comprising the step of conducting a player profile interview with a player to collect player information at least including physical limitations, right/left hand player, current playing ability, player's interpretation of their game and the player's goals for their game and the fitting session;

3. (original) The improved golf club fitting system of claim 1 wherein said step of measuring a player's physical dimensions further comprises measuring at least the player's middle finger length, palm-to-wrist crease length, grip strength, player's height, ground to palm distance and ground to knuckle of player's longest finger.

4. (original) The improved golf club fitting system of claim 1 further comprising the steps of determining a player's current equipment and the player's likes/dislikes on club aesthetics and feel, selecting a current favorite golf club via player inquiry, recording the club length, shaft frequency, dead weight of club, swing weight of club and the corresponding shaft flex of the current favorite club and comparing the recorded data of said current favorite club with said representative golf club to identify and assist the user in selecting the correct club set for the player and further to act as a guideline for narrowing of scope of acceptable club choices for the player.

5. (original) The improved golf club fitting system of claim 1 further comprising the step of determining the preferred club head and club shaft configuration for the player at least factoring recommended shaft length taken from applicable fitting chart, shaft material options available, adjustments due to player flexibility, swing tempo, and shaft loading effects and additional grip weight due to size recommendations.

1 **65.** (currently amended) The improved golf club fitting system of claim **1** wherein said
2 step of selecting a representative golf club comprises selecting a test golf club having a determined
3 dead weight, swing weight and balance, said determined dead weight, swing weight and balance
4 calculated via said determining step, said test golf club having a club head including adjustable
5 weighting means and adjustable weight positioning means, said test golf club further having shaft
6 length adjustment means such that the weight and balance of said club head of said test golf club and
7 the length of said shaft of said test golf club are adjustable to fit the player's determined swing
8 characteristics.

9
10 **76.** (currently amended) The improved golf club fitting system of claim **65** further
11 comprising using said test golf club and designated fitting charts to determine the appropriate
12 selection of a set of golf clubs for the player which will best fit the player's playing characteristics.

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14 **87.** (currently amended) The improved golf club fitting system of claim **65** wherein the
15 shaft length and the head weight of said test golf club is adjustable via a plurality of shaft extensions
16 which are designed to releasably connect to the top end of the test golf club and are made in a series
17 of progressively lengthened units such as the one-inch extension and the one and one-half inch
18 extension, said head weights adapted to be releasably mounted into the club head of the test golf
19 club, said head weights being in progressively heavier units such as the ¼ ounce weight and the ½
20 ounce weight such that the precise weight and shaft length for said test golf club can be set so that
21 the player and fitter can determine the best fitting club for the player and use the resulting figures to
22 fit the rest of the desired set.

23
24 **98.** (currently amended) The improved golf club fitting system of claim **1** further
25 comprising the step of providing an adjustable lie board including a base plate on which is pivotably
26 mounted a lie plate which is angle and attitude adjustable relative to said base plate, an angle readout
27 device mounted on said base plate adjacent said lie plate operative to permit reading of the angle of
28 said lie plate relative to said base plate, said adjustable lie board enabling use of said representative

1 golf club during the angle determination section of the fitting process, with angle changes being
2 made via said adjustable lie board instead of through the use of multiple test clubs with slightly
3 different club head angles.
4

5 **10 9.** (currently amended) The improved golf club fitting system of claim **9 8** further
6 comprising the steps of placing marking tape on the sole of the club head of said representative golf
7 club, having the player hit at least one shot off of said lie plate of said adjustable lie board, recording
8 the position of the impact mark on said marking tape via said hitting of at least one shot, adjusting
9 the angle of said lie plate relative to said base to bring the angle of said lie plate into general
10 alignment with the angle of the player's swing and repeating said hitting, recording and adjusting
11 steps until the impact mark on said marking tape is generally centered on the club sole in relation
12 to the heel and toe of the club head of said representative golf club.
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14 **11 10.** (currently amended) The improved golf club fitting system of claim 1 wherein said
15 representative golf club is a 6-iron.
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17 **12 11.** (currently amended) The improved golf club fitting system of claim 1 wherein said
18 representative golf club is a 7-iron.
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1 **13 12.** (currently amended) An improved golf club fitting system for fitting a set of golf
2 clubs to a player comprising the steps:

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4 measuring a player's physical dimensions at least including grip strength of the player's hand;

5
6 selecting a representative golf club having a dead weight equal to the total weight of the
7 representative golf club, said dead weight being directly proportional to the player's grip
8 strength, specifically that the dead weight of the golf club is greater when the player's grip
9 strength is greater and vice versa;

10
11 recording the club length of the representative golf club;

12
13 determining the swing weight of the representative golf club;

14
15 computing a balance index (BI) for the representative golf club by dividing the dead weight (DW)
16 by the numerical value of the swing weight (SW) ($DW/SW = BI$);

17
18 comparing said balance index (BI) determined for the representative golf club to said dead weight
19 of the representative golf club to determine generally corresponding balance index and dead
20 weight values for at least some of the other golf clubs in a set of golf clubs such that the
21 system user can generally match different iron and wood golf clubs to the representative golf
22 club thereby creating a generally ideal matched set of golf clubs for the player;

23
24 providing an adjustable lie board including a base plate on which is pivotably mounted a lie plate
25 which is angle and attitude adjustable relative to said base plate, an angle readout device
26 mounted on said base plate adjacent said lie plate operative to permit reading of the angle of
27 said lie plate relative to said base plate, said adjustable lie board enabling use of said
28 representative golf club during the angle determination section of the fitting process, with

angle changes being made via said adjustable lie board instead of through the use of multiple test clubs with slightly different club head angles;

placing marking tape on the sole of the club head of said representative golf club;

having the player hit at least one shot off of said lie plate of said adjustable lie board;

recording the position of the impact mark on said marking tape via said hitting of at least one shot;

adjusting the angle of said lie plate relative to said base to bring the angle of said lie plate into general alignment with the angle of the player's swing; and

repeating said hitting, recording and adjusting steps until the impact mark on said marking tape is generally centered on the club sole in relation to the heel and toe of the club head of said representative golf club.

1 **14 13.** (currently amended) An improved golf club fitting system for fitting a set of golf
2 clubs to a player comprising the steps:

3
4 measuring a player's physical dimensions at least including grip strength of the player's hand;

5
6 selecting a representative golf club having a dead weight equal to the total weight of the
7 representative golf club, said dead weight being directly proportional to the player's grip
8 strength, specifically that the dead weight of the golf club is greater when the player's grip
9 strength is greater and vice versa, said representative golf club comprising a test golf club
10 having a determined dead weight, swing weight and balance, said determined dead weight,
11 swing weight and balance calculated via said determining step, said test golf club having a
12 club head including adjustable weighting means and adjustable weight positioning means,
13 said test golf club further having shaft length adjustment means such that the weight and
14 balance of said club head of said test golf club and the length of said shaft of said test golf
15 club are adjustable to fit the player's determined swing characteristics;

16
17 providing a plurality of shaft extensions and a plurality of head weights for said test golf club, said
18 plurality of shaft extensions adapted to releasably connect to the top end of the test golf club
19 and which are made in a series of progressively lengthened units such as the one-inch
20 extension and the one and one-half inch extension, said head weights adapted to be
21 releasably mounted into the club head of the test golf club, said head weights being in
22 progressively heavier units such as the ¼ ounce weight and the ½ ounce weight such that the
23 precise weight and shaft length for said test golf club can be set so that the player and fitter
24 can determine the best fitting club for the player and use the resulting figures to fit the rest
25 of the desired set;

26
27 computing a balance index (BI) for the representative golf club by dividing the dead weight (DW)
28 by the numerical value of the swing weight (SW) ($DW/SW = BI$); and

1 comparing said balance index (BI) determined for the test golf club to said dead weight of the test
2 golf club to determine generally corresponding balance index and dead weight values for at
3 least some of the other golf clubs in a set of golf clubs such that the system user can generally
4 match different iron and wood golf clubs to the test golf club thereby creating a generally
5 ideal matched set of golf clubs for the player.